

Application No. 10/589,320
Paper Dated: September 23, 2009
In Reply to USPTO Correspondence of June 25, 2009
Attorney Docket No. 3135-062156

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

Claims 1-12 (Cancelled).

Claim 13 (Currently Amended): An artificial intra ocular lens of variable optical power comprising at least two optical elements which can be shifted relative to each other in a direction extending perpendicular to the optical axis when in the eye, wherein the optical elements have ~~such a~~ an asymmetric surface shape ~~that they~~ and exhibit, in combination, different optical powers at different relative positions, wherein the optical elements are each connected to an elastic haptic and a non-elastic haptic, and that the elastic haptic of one element is connected to the non-elastic haptic of the other element through a connecting anchor.

Claim 14 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein the elastic haptics and the non-elastic haptics are connected to opposite sides of the optical elements.

Claim 15 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein the non-elastic elements are formed by fixed elements.

Claim 16 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein at least one of its optical elements has at least one saddle shaped surface.

Claim 17 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein the connecting anchor is adapted to be connected to a part of the capsular bag of the eye.

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Claim 18 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein by adjusting means which are connected to the optical elements for adjustment of the resting position of the optical elements.

Claim 19 (Previously Presented): An application of artificial intra ocular lens according to claim 13, wherein, the lens is used for correction of a disorder of the eye.

Claim 20 (Previously Presented): An application of artificial intra ocular lens as claimed in claim 13, wherein the lens is used as an accommodating artificial intra ocular lens.

Claim 21 (Previously Presented): An application of artificial intra ocular lens as claimed in claim 13, wherein the lens is used as a non-accommodating artificial intra ocular lens.

Claim 22 (Previously Presented): The artificial intra ocular lens as claimed in claim 13, wherein at least one of its two planes has an optical diffraction structure.

Claim 23 (Previously Presented): The artificial intra ocular lens according to claim 13, wherein at least one of the optical elements comprises a diffraction structure according to the Gradient Index (GRIN) principle.

Claim 24 (Previously Presented): The artificial intra ocular lens according to claim 13, wherein the optical elements are adapted to change their combined optical power when rotated relative to each other.